

ABSTRACT

A heat roller has a cylindrical sheet-like heating element, an inner tube and an outer tube. The sheet-like heating element has a resistance member embedded into an insulating member. The outer tube has a non-linear shape seen in an axial direction. The heat roller is fabricated by supplying pressurized fluid to the inner tube for expanding the inner tube, sheet-like heating element and outer tube toward a die. The die has a non-linear inner shape seen in the axial direction. Therefore, the outer tube of the fabricated heat roller has a non-linear shape. Further, an edge section of the inner tube can simultaneously be formed into a desired shape.